



**DIVISION OF MINES  
BOARD OF COAL MINING EXAMINERS  
CERTIFICATION REQUIREMENTS**

**UNDERGROUND DIESEL ENGINE MECHANIC**

Article 3 of the Coal Mine Safety Laws of Virginia establishes requirements for certification of coal mine workers. The certification requirements are included in §45.1-161.24 through §45.1-161.41 in which the Board of Coal Mining Examiners is established for the purpose of administering the certification program. The Board has promulgated certification regulations 4 VAC 25-20 (VR 480-04-2), which set the minimum standards and procedures required for Virginia coal miner examinations and certifications.

**CERTIFICATION CLASSIFICATION: *\*Underground Diesel Engine Mechanic***

This certification authorizes the holder to:

- Perform maintenance work on diesel engines in underground coal mines as recommended by the manufacturer of the engine.

**APPLICATION/EXPERIENCE REQUIREMENTS:**

- Application (BCME-1) and \$10.00 fee 5 working days prior to examination
- Six months experience as an underground diesel engine mechanic or complete a diesel engine mechanic course approved by the Division of Mines, or possess appropriately related work experience approved by the Chief of the Division of Mines
- Current first aid training (MSHA first aid 5000-23 acceptable)

**EXAMINATION REQUIREMENTS:** A score of 80% on each element of the examination

<b>ELEMENTS OF EXAM</b>	<b>NUMBER OF QUESTIONS</b>
▪ Emission Testing (ET)	20
▪ Fuels and Emission (FM)	20
▪ Internal Combustion (IC)	20
▪ Preventive Maintenance (PM)	20
▪ Federal Regulations (FR)	20
▪ Virginia Rules & Regulations (VR)	20
▪ First Aid (MM)	20
▪ Gas Detection - practical demonstration	
▪ Records – practical (not implemented)	

**RECOMMENDED REFERENCE/STUDY MATERIALS:**

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|---|--|
| ■ Coal Mine Safety Laws of Virginia   | ■ MSHA (Basic First Aid) Manual 3  |
| ■ BCME Requirements   | ■ Title 30 CFR Part 36, 75   |
| ■ Rules & Regulations Governing the Use of Diesel Powered Equipment in Underground Coal Mines | ■ Diesel Engine Mechanic Study Guide   |
| ■ Mine Gases Packet   | ■ Practical Ways to Reduce Exposure to Diesel Exhaustion in Mining – A Toolbox |

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**The above mentioned study materials are available at the Department of Mines, Minerals and Energy's Big Stone Gap Office, Customer Assistance Center (276) 523-8233 and Keen Mountain Field Office (276) 498-4533.**

**\*4 hours annual continuing education required to update this certification.**

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